PATENT COOPERATION TREATY

PCT

22 MAR 2007

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference 242378WO	FOR FURTHER ACTION	See item 4 below				
International application No. PCT/US2004/039780	International filing date (day/month/year) 23 December 2004 (23.12.2004)	Priority date (day/month/year) 30 January 2004 (30.01.2004)				
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237						
Applicant TOKYO ELECTRON LIMITED						

1.	 This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis. 1(a). 					
2.	This REPORT consists of a total of 4 sheets, including this cover sheet.					
	In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.					
3.	. This report contains indications relating to the following items:					
	Box No. I	Basis of the report				
	Box No. II	Priority				
	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
	Box No. IV	Lack of unity of invention				
	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
	Box No. VI	Certain documents cited				
	Box No. VII	Certain defects in the international application				
	Box No. VIII	Certain observations on the international application				
4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis.2).						
			Date of issuance of this report			
			31 July 2006 (31.07.2006)			
The International Bureau of WIPO			Authorized officer			
34, chemin des Colombettes 1211 Geneva 20, Switzerland			Agnes Wittmann-Regis			
	Facsimile No. +41 22 338 82 70 e-mail: pt06@wipo.int					
Form PCT/IB/373 (January 2004)						

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTH	IORITY	REC'D 0 7 NOV 2005		
To: GREGORY J. MAIER OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,			POFO POT	
P.C. 1940 DUKE STREET ALEXANDRIA, VA 22314		WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY		
		(PCT Rule 43 <i>bis</i> .1)		
		Date of mailing (day/month/year) 03 NOV 2003		
Applicant's or agent's file reference		FOR FURTHER ACTION See paragraph 2 below		
242378WO				
International application No.	International filing date	(aay/month/year)	ay/month/year) Priority date (day/month/year)	
PCT/US04/39780 International Patent Classification (IPC)	or both national classifica	12.2004) tion and IPC	30 January 2004 (30.01.2004)	
IPC(7): H01L 21/302, 461; H05K 7/20;			74. 972 • 219/444. 1	
Applicant 1PC(7): HOIL 21/302, 461; HO3K 1/20;	103B 3/06 and 03 Ci.: 2	136//13, /10, /62, 9	14, 312, 213/444.1	
TOKYO ELECTRON LIMITED				
1. This opinion contains indications rel	ating to the following iten	ıs:		
Box No. I Basis of the opinion				
Box No. II Priority	Box No. II Priority			
Box No. III Non-establis	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability			
Box No. IV Lack of unit	IV Lack of unity of invention			
	Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
Box No. VI Certain doct	uments cited			
Box No. VII Certain defe	ects in the international ap	plication		
Box No. VIII Certain obse	ervations on the internation	nal application		
2. FURTHER ACTION				
If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.				
If this opinion is, as provided above, considered to be a written opinion of the IPBA, the applicant is invited to submit to the IPBA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220.				
3. For further details, see notes to Form PCT/ISA/220.				
Name and mailing address of the ISA/ US	3	Authorized officer	111.0	
Mail Stop PCT, Attn: ISA/US Commissioner for Patents		Thinh T Nguyen	Jany JUSU for	
P.O. Box 1450 Alexandria, Virginia 22313-1450		Telephone No. \$7	1,272-1/90	
Facsimile No. (703)305-3230 Form PCT/ISA/237 (cover sheet) (January 2004)				

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US04/39780

Box	No. I Basis of this opinion
	th regard to the language, this opinion has been established on the basis of the international application in the language in which was filed, unless otherwise indicated under this item.
	This opinion has been established on the basis of a translation from the original language into the following language , which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
	· · · · · · · · · · · · · · · · · · ·
	th regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the med invention, this opinion has been established on the basis of:
a.	type of material
	a sequence listing
	table(s) related to the sequence listing
b	format of material
	in written format
	in computer readable form
c.	time of filing/furnishing
	contained in international application as filed.
	filed together with the international application in computer readable form.
	furnished subsequently to this Authority for the purposes of search.
з. 🔲	In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
1. Add	itional comments:
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US04/39780

Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
1. Statement					
	Claims	1-47	YES		
Novelty (N)		NONE			
Inventive step (IS)	Claims	1-47			
	Claims	NONE	NONO		
The state of the s	Claims	1 47	YES		
Industrial applicability (IA)		NONE			
	· · · · · · · · · · · · · · · · · · ·				
 Citations and explanations: Claim 1-47 are considered novel because prior art 	fails to teach a s	substrate holder with heating	g and cooling component that has a		
fluid gap and brazing component to control the the	ermal conductance	e. in claim 1			
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